

CLAIMS

1. A side curtain air bag, which has chambers expanded by gas supplied from an inflator, and expands and develops in a curtain shape at side part of a vehicle so as to protect occupants, the side curtain air bag comprising:

primary chambers 3, 4, 5, 6, 7, 8, 9, and 10 which expand to develop the side curtain air bag 1; and

a secondary chamber 2 which expands later than the primary chambers 3, 4, 5, 6, 7, 8, 9, and 10 to apply an additional tension on the developed side curtain air bag 1.

2. The side curtain air bag according to claim 1,

wherein the secondary chamber 2 has an opening A communicating with the primary chamber 3, and is expanded by the inflow of the gas from the primary chamber 3.

3. A side curtain air bag, which has chambers expanded by gas supplied from an inflator, and expands and develops in a curtain shape at side part of a vehicle so as to protect occupants, the side curtain air bag comprising:

a primary chamber which expands so as to protect an occupant;

a secondary chamber which applies tension on the side curtain air bag after the side curtain air bag is expanded and developed; and

a set of strings, each having one end attached to the side curtain air bag at a joint end and the other end attached to a vehicle at a fixation end, in the forward and backward direction of the vehicle,

wherein, when the side curtain air bag is expanded and developed, the secondary chamber is disposed such that a portion or all of the secondary chamber overlaps a virtual band region, the virtual band region being formed of a first virtual line connecting the respective fixation ends of the one set of strings and a second virtual line connecting the respective joint ends of the one set of strings.

4. The side curtain air bag according to claim 3, wherein the secondary chamber expands later than the primary chamber.

5. The side curtain air bag according to claim 3, wherein the secondary chamber has an opening communicating with the primary chamber, and is expanded by the inflow of the gas from the primary chamber.

6. A side curtain air bag, which has chambers expanded by gas supplied from an inflator, and expands and develops in a curtain shape at side part of a vehicle so as to protect occupants, the side curtain air bag comprising:

a primary chamber which expands so as to protect an

occupant;

a secondary chamber which applies tension on the side curtain air bag after the side curtain air bag is expanded and developed; and

a set of strings, each having one end attached to the attachment part of the side curtain air bag at a joint end and the other end attached to a vehicle at a fixation end, in the forward and backward direction of the vehicle,

wherein, when the side curtain air bag is expanded and developed, the secondary chamber is disposed such that a portion or all of the secondary chamber overlaps a virtual band region, the virtual band region being formed of a first virtual line connecting respective upper ends of attachment parts of the one set of strings and a second virtual line connecting respective lower ends of the attachment parts of the one set of strings.

7. The side curtain air bag according to claim 6, wherein the secondary chamber expands later than the primary chamber.

8. The side curtain air bag according to claim 6, wherein the secondary chamber has an opening communicating with the primary chamber, and is expanded by the inflow of the gas from the primary chamber.

9. A side curtain air bag, which has chambers expanded by gas supplied from an inflator, and expands and

develops in a curtain shape at side part of a vehicle so as to protect occupants, the side curtain air bag comprising:

a primary chamber which expands so as to protect an occupant;

a secondary chamber which applies tension on the side curtain air bag after the side curtain air bag is expanded and developed; and

a set of strings, each having one end attached to the side curtain air bag at a joint end via the attachment part of the side curtain air bag and the other end attached to a vehicle at a fixation end, in the forward and backward direction of the vehicle,

wherein, when the side curtain air bag is expanded and developed, the secondary chamber is disposed such that a portion or all of the secondary chamber overlaps a virtual band region, the virtual band region being formed of a first virtual line connecting the upper end of the attachment part of one string and the fixation end of the other string, and a second virtual line connecting respective lower ends of the attachment parts of the one set of strings.

10. The side curtain air bag according to claim 9,

wherein the secondary chamber expands later than the primary chamber.

11. The side curtain air bag according to claim 9,
wherein the secondary chamber has an opening
communicating with the primary chamber, and is expanded by
the inflow of the gas from the primary chamber.